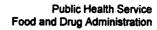
CENTER FOR DRUG EVALUATION AND RESEARCH APPROVAL PACKAGE FOR:

APPLICATION NUMBER 21-184

Chemistry Review(s)







Memorandum

Date

September 25, 2000

From

William C. Timmer; Ph.D.

Subject

Addendum to Chemistry Review #2;

NDA 21-184: TAZORAC (tazarotene) Cream, 0.05%, 0.1%

To

The File

The following changes and clarifications for Chemistry Review #2 are made:

- Chemistry review #2 requested a Phase IV commitment to perform a Photostability *Condition-of-Use* Study.
- The sponsor noted that phtostability data was included in the NDA.
- Examination of the study by the reviewer indicated several ambiguities; a teleconference was arranged.
- Discussions during the teleconference revealed that there was about a loss of tazarotene (the drug substance) at the end of the photostability study.

Since the tazarotene loss was determined -- which was the rationale for performing the conditions-of-use photostudy - it is not necessary for the Phase IV commitment to be honored. That is, the sponsor is not requested to perform the Conditions-of Use-Photostability study.

S/

William C. Timmer, Ph.D. Review Chemist, HFD-540/830

cc:

Original NDA 21-184
HFD-540/Division File
HFD-540/DD/JWilkin
HFD-540/ChemTL/WHDeCamp W 100
HFD-540/PM/KBhatt

HFD-540/Pharm-TL/AJacobs HFD-540/Pharm/ANostrandt HFD-540/Chem/WCTimmer HFD-540/MO-TL/MOkun HFD-540/MO/HKo

U.S. FOOD and DRUG ADMINISTRATION

OFFICE OF NEW DRUG CHEMISTRY

DIVISION OF DERMATOLOGIC AND DENTAL DRUG PRODUCTS --- Review of Chemistry, Manufacturing, and Controls---

2

NDA #: 21-184

CHEM.REVIEW #:

REVIEW DATE: August 29, 2000

SUBMISSION/TYPE

DOCUMENT DATE

CDER DATE

ASSIGNED DATE

ORIGINAL

30-SEP-99

30-SEP-99

30-SEP-99

BC

07-MAR-00

09-MAR-00

09-MAR-00

NAME & ADDRESS OF APPLICANT:

Allergan, Inc. 2525 Dupont Drive P.O. Box 19534

Irvine, CA 92623-9534

Trudy A. Rumbaugh, M.D.

Director

Global Regulatory Affairs

(714) 246-4292

DRUG PRODUCT NAME:

Proprietary:

Tazorac

Nonproprietary/USAN:

Tazarotene

Code Names/#'s: Chemical Type:

AGN190168 3

Therapeutic Class:

S

PHARMACOLOGICAL INDICATION:

Once daily treatment of plaque psoriasis.

DOSAGE FORM:

cream

STRENGTHS:

0.05%

ROUTE OF ADMINISTRATION:

topical

DISPENSED:

X R. OTC

CHEMICAL NAME, STRUCTURAL FORMULA, MOLC. FORMULA & WT: Refer to Review #1.

SUPPORTING DOCUMENTS: Refer to Review #1.

RELATED DOCUMENTS:

None

CONSULTS:

None

CONCLUSIONS & RECOMMENDATIONS:

Stability is revised to provide for a Phase IV commitment. The application is recommended for APPROVAL under section 505 of the FFD&C Act.

William C. Timmer, Ph.D. Review Chemist, HFD-540/830 cc:

Original NDA 21-184
HFD-540/Division File
HFD-540/Chem/WCTimmer
HFD-540/ChemTL/WHDeCamp W 8/24/10
HFD-540/MO-TL/MOkun
HFD-540/MO/HKo

HFD-540/Pharm-TL/AJacobs HFD-540/Pharm/ANostrandt HFD-540/Biopharm/SLee HFD-540/Biopharm-TL/EDBashaw HFD-725/Stat/SThomson HFD-725/Stat-TL/MAlosh HFD-160/Micro/NSweeney File Name: nda21184_org.doc

APPEARS THIS WAY ON ORIGINAL

THIS SECTION WAS DETERMINED NOT TO BE RELEASABLE

one page

U.S. FOOD and DRUG ADMINISTRATION

OFFICE OF NEW DRUG CHEMISTRY

DIVISION OF DERMATOLOGIC AND DENTAL DRUG PRODUCTS —Review of Chemistry, Manufacturing, and Controls—

NDA #: 21-184 CHEM.REVIEW #: 1 REVIEW DATE: July 26, 2000

SUBMISSION/TYPE DOCUMENT DATE CDER DATE ASSIGNED DATE JUL 2 6 2000

ORIGINAL 30-SEP-99 30-SEP-99 30-SEP-99 BC 07-MAR-00 09-MAR-00 09-MAR-00

NAME & ADDRESS OF APPLICANT: Allergan, Inc.

2525 Dupont Drive P.O. Box 19534 Irvine, CA 92623-9534

Trudy A. Rumbaugh, M.D.

Director

Global Regulatory Affairs

(714) 246-4292

DRUG PRODUCT NAME

<u>Proprietary:</u> Tazorac Nonproprietary/USAN: Tazarotene

Code Names/#'s: AGN190168

<u>Chemical Type:</u> 3 Therapeutic Class: S

PATENT STATUS: U.S. Patent No. 5,089,509(1992)

PHARMACOLOGICAL INDICATION: Once daily treatment of plaque psoriasis.

DOSAGE FORM: cream 5TRENGTHS: 0.05%,

ROUTE OF ADMINISTRATION: topical

DISPENSED: X Rx OTC

CHEMICAL NAME, STRUCTURAL FORMULA, MOLC. FORMULA & WT:

Ethyl 6-[(4,4-dimethylthiochroman-6-yl)ethynyl]nicotinate; C21H21NO2S CAS number: 302-79-4

SUPPORTING DOCUMENTS:

IND NDA	20,600	Tazarotene Cream, 0.05%, 0.1%. Allergan, Inc., Waco, CA. Tazarotene Topical Gel, 0.05%, 0.1%. Allergan, Inc., Irvine, CA.
NDA .	20,000	1 azarotene Topicai Ger, 0.03%, 0.1%. Anergan, nc., nvine, CA.
	~	
		08-May-95.

RELATED DOCUMENTS:

None

CONSULTS:

Information Request(s):

Section 5A

CONCLUSIONS & RECOMMENDATIONS:

The application is recommended for APPROVAL under section 505 of the FFD&C Act.

\S/

William C. Timmer, Ph.D. Review Chemist, HFD-540/830

cc:

Original NDA 21-184 HFD-540/Division File HFD-540/DD/JWilkin HFD-540/Chem/WCTimmer HFD-540/ChemTL/WHDeCamp HFD-540/PM/KBhatt HFD-540/MO-TL/MOkun HFD-540/MO/HKo

/S/

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HFD-540/Pharm-TL/AJacobs HFD-540/Pharm/ANostrandt HFD-540/Biopharm/SLee HFD-540/Biopharm-TL/EDBashaw

HFD-725/Stat/SThomson

HFD-725/Stat-TL/MAlosh HFD-160/Micro/NSweeney

File Name: nda21184 org.doc

/S/

8/15/00

THIS SECTION WAS DETERMINED NOT TO BE RELEASABLE

15 Pages

2

11-MAY-2000

FDA CDER EES

ESTABLISHMENT EVALUATION REQUEST **SUMMARY REPORT**

Application: NDA 21184/009

Priority:

Org Code: 540

Stamp: 30-SEP-1999 Regulatory Due: 31-JUL-2000

_ Action Goal:

District Goal: 01-JUN-2000

Applicant:

ALLERGAN

Brand Name:

TAZORAC(TAZOROTENE)0.05%/0.1%

2525 DUPONT DR

TOPICAL CR Established Name:

IRVINE, CA. 926239534

Generic Name: TAZAROTENE

Dosage Form: CRM (CREAM) Strength:

0.05% AND 0.1%

FDA Contacts:

K. BHATT

(HFD-540)

301-827-2048 , Review Chemist

301-827-2020 , Project Manager

W. TIMMER W. DECAMP II (HFD-540) (HFD-540)

301-827-2041 , Team Leader

Overall Recommendation:

ACCEPTABLE on 11-MAY-2000by S. FERGUSON (HFD-324)301-827-0062

Establishment: 1643525

ALLERGAN INC

8301 MARS DR WACO, TX 76712 DMF No:

AADA No:

Profile: OIN

OAI Status: NONE

Responsibilities: FINISHED DOSAGE

Last Milestone: OC RECOMMENDATION

MANUFACTURER

Milestone Date: 11-MAY-2006

ACCEPTABLE

FINISHED DOSAGE OTHER TESTER

FINISHED DOSAGE PACKAGER

Decision: Reason:

DISTRICT RECOMMENDATION

Establishment: 9610728

DMF No:

ALLERGAN PHARMACEUTICALS IR AADA No:

WESTPORT, COUNTY MAYO, EI

Profile: CTL

OAI Status: NONE

Responsibilities: FINISHED DOSAGE STABILITY

TESTER

Last Milestone: OC RECOMMENDATION

Milestone Date: 22-NOV-1999

Decision: Reason:

ACCEPTABLE BASED ON PROFILE

Establishment:

DMF No: AADA No:

Profile: CSN

OAI Status: NONE

Last Milestone: OC RECOMMENDATION

Milestone Date: 22-NOV-1999

Responsibilities:

11-MAY-2000

FDA CDER EES ESTABLISHMENT EVALUATION REQUEST SUMMARY REPORT

Page 2 of

Decision:

ACCEPTABLE

Reason:

BASED ON PROFILE

APPEARS THIS WAY ON ORIGINAL